



SDMS DocID

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Clean Harbors Environmental Services, Inc.  
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Norwell, MA 02061  
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Superfund Remedial Center  
Site: Wells 6 & H  
ID: 34  
OTHER: 446073

VIA FEDEX OVERNIGHT MAIL

February 29, 2008

DEP Northeast Regional Office  
Bureau of Waste Site Cleanup  
205B Lowell Street  
Wilmington, MA 01887

Re: Immediate Response Action Status Report  
Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts  
RTN #3-22144

To Whom it May Concern:

Enclosed please find an Immediate Response Action Status Report, which is being submitted by Clean Harbors Environmental Services, Inc. on behalf of Murphy's Waste Oil Service, Inc.

If you have any questions concerning this letter, please do not hesitate to contact me at (781) 792-5823, or William F. Connors at (781) 792-5169.

Sincerely,

Charles J. McCreery, CPG  
Senior Project Manager

Cc: Jennifer McWeeney, DEP BWSC  
Jeffrey H. Chormann, DEP BWP  
Joseph F. LeMay, USEPA  
Joan E. Murphy, Old Oil Realty Trust  
George P. Luker, Esq. Old Oil Realty Trust (w/o encl.)  
William F. Connors, CHES (w/o encl.)

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**IMMEDIATE RESPONSE ACTION  
STATUS REPORT**

**MURPHY'S WASTE OIL SERVICE, INC.  
252 SALEM STREET  
WOBURN, MASSACHUSETTS  
DEP RTN #3-22144**

**Prepared for:**

**Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, MA 01801**

**Prepared by:**

**Clean Harbors Environmental Services, Inc.  
42 Longwater Drive  
Norwell, Massachusetts 02061**

**February 22, 2008**

**CHES Job No. EO906569**

**IMMEDIATE RESPONSE ACTION  
STATUS REPORT**

**MURPHY'S WASTE OIL SERVICE, INC.  
252 SALEM STREET  
WOBURN, MASSACHUSETTS  
DEP RTN #3-22144**

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Clean Harbors Environmental Services, Inc.  
42 Longwater Drive  
Norwell, MA 02061-9149

## **IMMEDIATE RESPONSE ACTION STATUS REPORT**

**Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts**

### **INTRODUCTION**

This Immediate Response Action (IRA) Status Report has been prepared by Clean Harbors Environmental Services, Inc. (CHES) to document response actions relative to the presence of separate-phase oil discovered in two monitoring wells at the Murphy's Waste Oil Service, Inc. (Murphy's) facility located at 252 Salem Street in Woburn, Massachusetts (the "site"). The site is owned by Old Oil Realty Trust and is leased by Murphy's, a transfer, storage, and disposal facility for waste oil. Figure 1 shows the location of the site. An IRA Transmittal Form (BWSC-105) to accompany this Status Report is presented in Appendix A.

### **INCIDENT DESCRIPTION**

Murphy's Waste Oil Service, Inc. holds a RCRA Part B Permit issued by the Massachusetts Department of Environmental Protection (DEP) Bureau of Waste Prevention pursuant to 310 CMR 30.000, the Hazardous Waste Regulations. Pursuant to requirements of the Part B Permit, Murphy's developed a Groundwater Monitoring Plan (GMP), dated April 8, 2002 to evaluate existing wells at the facility. The GMP included results of a comprehensive gauging event performed at the Murphy's site on November 5, 2001. Separate-phase oil was detected in three site wells, MW-7 (0.24 foot), MW-16 (0.44 foot), and MR-2SS (0.01 foot). The accumulation of separate-phase product in the wells was considered reflective of historic contamination that had been identified during previous Corrective Action Investigation performed pursuant to the Part B Permit between 1988 and 1998. These data were reported to the DEP Business Compliance Branch consistent with the manner of documenting previous investigation findings.

On August 26, 2002, the DEP Bureau of Waste Prevention issued a Notice of Noncompliance (NON) to CHES (the parent company of Murphy's) for failure to notify the DEP Bureau of Waste Site Cleanup (BWSC) of the accumulation of product greater than ½-inch as a new site condition. Specifically, the measured thickness of oil in wells MW-7 and MW-16 exceeded the 72-hour notification requirement for light non-aqueous phase liquid (LNAPL) accumulation greater than ½-inch on groundwater in a monitoring well.

Notification was made to the BWSC on September 25, 2002, and Release Tracking Number (RTN) 3-22144 was issued for the new site condition. Verbal approval was given by the BWSC to conduct an Immediate Response Action (IRA), consisting of gauging the LNAPL thickness in the wells, initially on a semi-monthly basis, and removal of LNAPL when it is encountered. The notification and approved IRA tasks were documented in an IRA Plan, dated November 22, 2002, and subsequent IRA Status Reports.

### **PREVIOUS IMMEDIATE RESPONSE ACTIONS**

During the first gauging event on September 30, 2002, samples of LNAPL were collected from wells MW-7 and MW-16 for laboratory analysis of polychlorinated biphenyl compounds (PCBs by EPA Method 8082) and total petroleum hydrocarbon (TPH by GC/FID) to identify the petroleum type. The analytical results were presented in the IRA Plan. PCB compounds (Aroclor 1260) were detected in the oil samples from wells MW-7 and MW-16 at concentrations of 3.7 mg/kg and 19 mg/kg, respectively. The hydrocarbon products found in MW-7 and MW-16 were a close match to each other, and most closely resembled the laboratory's reference standard for lubricating oil.

During the gauging event on October 11, 2002, groundwater samples were collected from wells MW-7 and MW-16 for analysis of PCB, extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbon (VPH). The laboratory results were included in the IRA Plan. PCBs were not detected in either of the groundwater samples above the laboratory Practical Quantitation Limit (PQL) of 1 ug/l. VPH was not detected in the sample from MW-7. However, VPH was detected in the sample from MW-16 at a total concentration of 1,961 ug/l, and VPH target compounds were detected at a total concentration of 66 ug/l. EPH was detected in the samples from MW-7 and MW-16 at total concentrations of 618 ug/l and 13,703 ug/l, respectively. EPH target compounds were detected in the sample from MW-16 at a total concentration of 11.6 ug/l. It is possible that the results from MW-16 were reflective of a sheen contained in the sample.

Since November 2001, wells MW-7 and MW-16 have been periodically gauged using an electronic oil/water interface probe. When present, oil is purged from the wells after gauging using a polyethylene bailer. The recovered oil is placed in a dedicated 5-gallon container staged at the site, which is periodically disposed. During each gauging event, the wetland adjacent to MW-7 and MW-16 is checked for the possible presence of an oil sheen. On January 10, 2003, an oil sheen was observed on surface water along a five-foot length of the wetland bank adjacent to well MW-16. The new site condition was reported to the DEP, which gave verbal approval to deploy absorbent boom to contain the sheen. As part of the ongoing IRA, three 8-foot sections of 8-inch diameter absorbent boom were placed in the wetland along the bank, centered on the area where the sheen was observed. Actions to deploy and maintain the boom were documented in a previous IRA Status Report, dated February 17, 2003.

On April 23, 2003, a limited subsurface investigation was performed to further delineate the extent of LNAPL in the area of MW-16. Four soil borings (MW-22 through MW-25) were advanced

surrounding MW-16, and a fifth boring (MW-26) was placed adjacent to the wetland bank about 80 feet south of MW-16 to establish background conditions. Locations of the wells are shown in Figure 2. Of the five newly-installed groundwater monitoring wells, MW-24 and MW-25 have been observed to contain LNAPL. MW-24 is located about 10 feet southeast of MW-16, and MW-25 is located about 15 feet south of MW-16.

Installation of wells MW-22 through MW-26 was documented in an IRA Status Report and Plan Modification, dated August 21, 2003. Based on the initial evaluation of the new wells, the Plan Modification proposed removal of source soils in the area of MW-16 to address LNAPL on the groundwater and the intermittent sheen on water in the wetland. It was proposed that soils be removed from an area approximately 20 feet by 10 feet and up to six feet below grade (up to 50 cubic yards) using dewatering, if needed. The installation of an interceptor trench was also proposed to recover any migratory oil. Implementation of the IRA (e.g. excavation) was initially postponed due to conditions of high water table in the wetland. High water levels in the wetland raise the possibility of destabilizing the excavation walls during installation of the interceptor trench. Subsequent efforts to prepare the area for excavation were hampered when it was found that the work area is heavily overgrown with poison ivy.

In a letter dated August 23, 2004, CHES was notified by the US Environmental Protection Agency (USEPA) that the Murphy's site has been included on the Comprehensive Environmental Response Compensation Liability Information System (CERCLIS) inventory of known or potential hazardous waste disposal areas. Murphy's is one of three properties collectively known as the Southwest Properties, a USEPA-designated part of the Wells G&H Superfund Site. As a result, the site has been deferred from the RCRA Corrective Action Program and will now be regulated under CERCLA. A copy of the USEPA letter was included in the IRA Status Report, dated January 21, 2005.

Based on data previously collected at Murphy's by CHES and investigations by others of the Whitney Barrel and Aberjona Auto Parts properties, the USEPA has completed a Baseline Risk Assessment of the Southwest Properties, dated March 2004. An executive summary of the Baseline Risk Assessment was included in a letter, dated April 14, 2004, a copy of which was included in the IRA Status Report, dated January 21, 2005. At the Murphy's site, cancer and non-cancer risks were found to human receptors due to the presence of PCBs and chromium in the wetland sediments. However, cancer and non-cancer risks to humans were within or below federal prescribed ranges for surface water in the wetland. Potential ecological risks were found to environmental receptors due to the presence of PCBs, chromium, and lead in the wetland sediments.

Because of the risks to human receptors from the wetland sediments, future remediation of the Southwest Properties is likely. CHES has not received any further directives from the USEPA since the August 23, 2004 letter. However, it is CHES' opinion that any excavation in proximity to the wetland, such as that previously proposed under the IRA, should be coordinated with the USEPA as part of the comprehensive response actions for the area. As such, CHES recommended in the IRA Status Report, dated January 21, 2005, that implementation of the proposed interceptor trench be postponed.



## STATUS OF IMMEDIATE RESPONSE ACTION

This IRA Status Report documents response actions conducted during the reporting period through January 2008. During this reporting period, the wells were gauged and then purged on five dates in 2007 (July 31, August 31, September 25, November 2, December 28), and January 29, 2008. Field data sheets for the reporting period are presented in Appendix B, and Tables 1 and 2 present a summary of the gauging data.

During the reporting period, product accumulations were observed in wells MW-16 (up to 0.50 foot), and MW-24 (up to 1.10 feet). Figures 3 and 4 show product thickness and groundwater elevation data for wells MW-16 and MW-24. These plots indicate that greater product accumulations occur during lower water table conditions. The oil/water purged from the wells after gauging was placed in a labeled 5-gallon pail, which was subsequently removed from the site and disposed on October 24, 2007. A copy of the Uniform Hazardous Waste Manifest for the disposal of the liquids is presented in Appendix C.

The wetland was dry from July to November, and then frozen during site visits. No sheen was observed on surface water during the reporting period. The boom in the wetland was replaced during the September 2007 sample event. The soiled boom was placed in a specially-designated dumpster used by the facility for similar spent absorbents.

Because of the presence of separate-phase product in the monitoring wells at a thickness greater than 1/2-inch, the ongoing IRA will consist of periodic gauging/purging of the affected wells and inspection of surface water in the wetland.

## SCHEDULE

It is anticipated that the affected wells will be gauged and purged on a quarterly to monthly basis. During site visits, surface water in the wetland will be inspected.

Status Reports will be forwarded to the DEP on a semi-annual basis to document ongoing efforts made under the IRA.

Copies of this IRA Status Report are being submitted to the DEP Bureau of Waste Prevention, Bureau of Waste Site Cleanup, and the USEPA CERCLA Program.





**TABLE 1**  
**GROUNDWATER ELEVATION**

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Date	MW-7	MW-16	MW-22	MW-23	MW-24	MW-25	MW-26
11/5/2001	44.5	43.13	---	---	---	---	---
9/30/2002	45.36	43.59	---	---	---	---	---
10/11/2002	45.12	43.78	---	---	---	---	---
10/31/2002	45.47	44.21	---	---	---	---	---
11/8/2002	45.58	44.31	---	---	---	---	---
12/2/2002	45.88	44.32	---	---	---	---	---
12/18/2002	46.85	45.17	---	---	---	---	---
1/10/2003	---	45.05	---	---	---	---	---
1/13/2003	46.71	44.98	---	---	---	---	---
2/14/2003	46.50	45.41	---	---	---	---	---
4/9/2003	43.75	45.35	---	---	---	---	---
5/5/2003	45.72	44.81	---	---	---	---	---
5/12/2003	---	---	44.78	44.78	44.78	44.82	44.81
6/4/2003	46.04	45.20	45.93	45.13	45.11	45.17	46.02
7/2/2003	45.15	44.32	44.46	44.47	44.18	44.56	44.64
8/18/2003	44.81	44.49	44.72	44.65	44.61	44.76	44.80
10/2/2003	43.78	43.57	43.57	43.67	43.7	43.77	43.97
2/3/2004	44.19	43.75	43.70	43.72	43.86	43.81	44.30
7/8/2004	---	43.36	43.24	43.17	43.26	44.63	43.47
4/12/2005	45.98	45.35	45.11	45.14	45.32	45.27	45.19
8/10/2005	43.42	43.06	42.90	42.91	43.13	43.29	43.26
3/17/2006	44.87	44.46	44.73	44.54	44.64	44.73	44.78
6/5/2006	46.49	45.56	45.22	45.38	45.64	45.43	45.35
9/28/2006	43.92	43.77	44.12	43.89	44.08	44.16	44.41
10/27/2006	---	43.69	41.26	43.90	44.02	44.24	44.47
11/20/2006	---	45.13	45.11	44.98	45.10	45.14	45.17
12/28/2006	---	44.72	44.87	44.67	44.72	44.89	44.94
1/31/2007	---	44.00	44.26	44.00	43.96	44.32	44.65
2/27/2007	---	43.70	43.67	43.57	43.66	43.86	44.65
3/27/2007	---	45.17	45.12	45.01	45.20	45.12	45.17
4/28/2007	---	45.78	45.24	45.32	44.65	45.49	45.36
5/30/2007	---	44.88	44.81	44.65	44.79	44.75	44.95
7/3/2007	---	43.54	43.42	43.38	43.70	43.83	44.17
7/31/2007	---	43.26	44.78	45.35	44.41	44.47	45.17
8/31/2007	42.94	42.86	42.57	---	42.67	42.68	42.88
9/25/2007	43.01	42.88	42.66	---	42.683	42.83	43.13
11/2/2007	43.39	42.85	43.12	43.05	43.014	43.08	43.76
12/28/2007	---	44.90	44.76	44.53	44.45	44.71	44.86
1/29/2008	---	44.25	44.57	44.36	44.27	44.55	44.69

**Notes:**

1. Water elevations in feet, corrected for oil thickness.

**TABLE 2**  
**PRODUCT THICKNESS**

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Date	MW-7	MW-16	MW-22	MW-23	MW-24	MW-25	MW-26
11/5/2001	0.24	0.44	---	---	---	---	---
9/30/2002	0.59	0.35	---	---	---	---	---
10/11/2002	0.01	0.40	---	---	---	---	---
10/31/2002	0.02	0.33	---	---	---	---	---
11/8/2002	0.00	0.21	---	---	---	---	---
12/2/2002	0.00	0.02	---	---	---	---	---
12/18/2002	0.00	0.00	---	---	---	---	---
1/10/2003	---	0.00	---	---	---	---	---
1/13/2003	0.00	0.00	---	---	---	---	---
2/24/2003	0.00	0.00	---	---	---	---	---
4/9/2003	0.00	0.00	---	---	---	---	---
5/5/2003	0.00	0.00	---	---	---	---	---
5/12/2003	---	---	0.00	0.00	0.87	0.00	0.00
6/4/2003	0.00	0.00	0.00	0.00	0.91	0.00	0.00
7/2/2003	0.00	0.00	0.00	0.00	2.00	0.00	0.00
8/18/2003	0.01	0.56	0.00	0.00	0.91	0.00	0.00
10/2/2003	0.05	0.55	0.00	0.00	1.03	0.00	0.00
2/3/2004	0.00	0.46	0.00	0.00	0.30	0.00	0.00
7/8/2004	---	0.57	0.00	0.00	2.70	0.00	0.00
4/12/2005	0.00	0.67	0.00	0.00	0.23	0.00	0.00
8/10/2005	0.12	1.14	0.00	0.00	2.62	0.00	0.00
3/17/2006	1.80	0.01	0.00	0.00	0.06	0.00	0.00
6/5/2006	0.00	0.21	0.00	0.00	0.06	0.00	0.00
9/28/2006	0.10	0.15	0.00	0.00	1.32	0.00	0.00
10/27/2006	---	0.16	0.00	0.00	1.02	0.00	0.00
11/20/2006	---	0.23	0.00	0.00	0.16	0.00	0.00
12/28/2006	---	0.15	0.00	0.00	0.12	0.00	0.00
1/31/2007	---	0.04	0.00	0.00	0.11	0.00	0.00
2/27/2007	---	0.13	0.00	0.00	0.73	0.00	0.00
3/27/2007	---	0.22	0.00	0.00	0.07	0.00	0.00
4/28/2007	---	0.10	0.00	0.00	0.01	0.00	0.00
5/30/2007	---	0.03	0.00	0.00	0.14	0.00	0.00
7/3/2007	---	0.16	0.00	0.00	0.46	0.02	0.00
7/31/2007	---	0.03	0.00	0.00	1.10	0.18	0.00
8/31/2007	1.55	0.35	0.00	0.00	1.00	0.07	0.00
9/25/2007	0.15	0.10	0.00	---	0.90	0.03	0.00
11/2/2007	1.50	0.20	0.00	0.00	0.20	0.05	0.00
12/28/2007	---	0.50	0.00	0.00	0.53	0.00	0.00
1/29/2008	---	0.30	0.00	0.00	0.60	0.00	0.00

**Notes:**

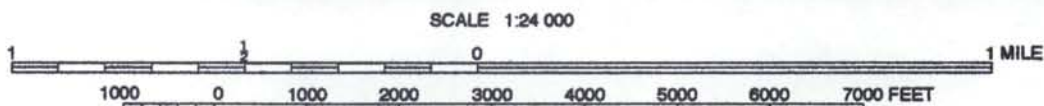
1. Product thickness in feet.







QUADRANGLE LOCATION



CONTOUR INTERVAL 3 METERS  
ELEVATION REFERENCE IS NATIONAL GEODETIC VERTICAL DATUM OF 1929  
COORDINATE REFERENCE IS NORTH AMERICAN DATUM OF 1927

COORDINATES		PRELIMINARY		CJM	CJM	CJM	3/06
UTM:	4,706,254 mN 324,682 mE	A	DESCRIPTION	DRWN	CHKD	APPR	DATE
LONGITUDE:	W 71° 08' 00"						
LATITUDE:	N 42° 29' 27"	ISSUE					

BASE MAP: USGS TOPOGRAPHIC MAP PRINTED FROM TOPO! © 1998 WILDFLOWER PRODUCTIONS

**CleanHarbors**  
Environmental Services®

1501 WASHINGTON STREET  
BRAINTREE, MASSACHUSETTS 02184  
(781) 849-1800

MURPHY'S WASTE OIL SERVICE, INC.  
252 Salem Street  
Woburn, Massachusetts

**LOCUS MAP**

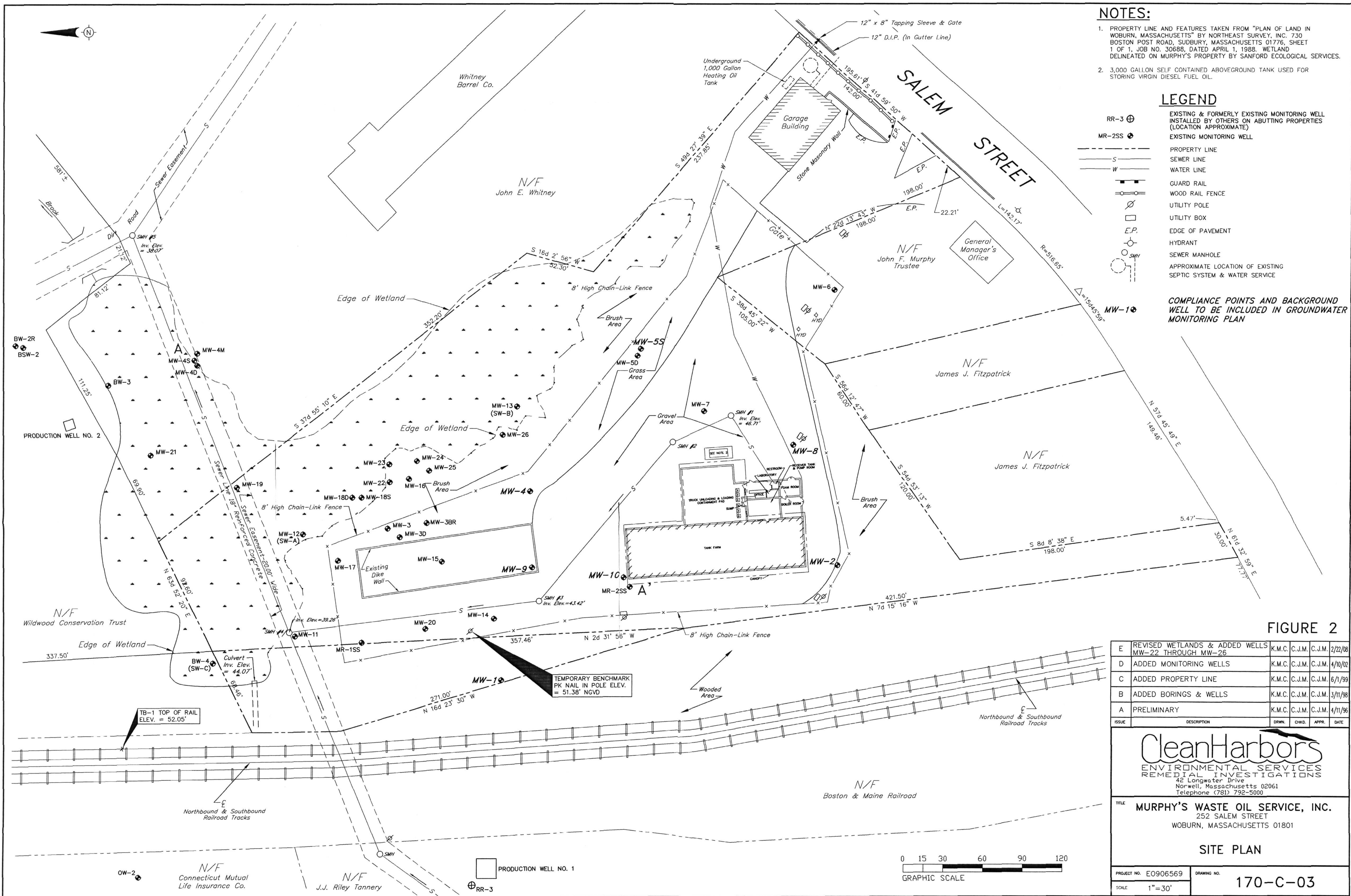
JOB NO.: MU599836

SCALE: AS SHOWN

DWG. NO.

**FIGURE 1**





- NOTES:**
1. PROPERTY LINE AND FEATURES TAKEN FROM "PLAN OF LAND IN WOBURN, MASSACHUSETTS" BY NORTHEAST SURVEY, INC. 730 BOSTON POST ROAD, SUDBURY, MASSACHUSETTS 01776, SHEET 1 OF 1, JOB NO. 30688, DATED APRIL 1, 1988. WETLAND DELINEATED ON MURPHY'S PROPERTY BY SANFORD ECOLOGICAL SERVICES.
  2. 3,000 GALLON SELF CONTAINED ABOVEGROUND TANK USED FOR STORING VIRGIN DIESEL FUEL OIL.

**LEGEND**

- RR-3 EXISTING & FORMERLY EXISTING MONITORING WELL INSTALLED BY OTHERS ON ABUTTING PROPERTIES (LOCATION APPROXIMATE)
- MR-2SS EXISTING MONITORING WELL
- PROPERTY LINE
- SEWER LINE
- WATER LINE
- GUARD RAIL
- WOOD RAIL FENCE
- UTILITY POLE
- UTILITY BOX
- EDGE OF PAVEMENT
- HYDRANT
- SEWER MANHOLE
- APPROXIMATE LOCATION OF EXISTING SEPTIC SYSTEM & WATER SERVICE

COMPLIANCE POINTS AND BACKGROUND WELL TO BE INCLUDED IN GROUNDWATER MONITORING PLAN

FIGURE 2

E	REVISED WETLANDS & ADDED WELLS MW-22 THROUGH MW-26	K.M.C.	C.J.M.	C.J.M.	2/22/08
D	ADDED MONITORING WELLS	K.M.C.	C.J.M.	C.J.M.	4/10/02
C	ADDED PROPERTY LINE	K.M.C.	C.J.M.	C.J.M.	6/1/99
B	ADDED BORINGS & WELLS	K.M.C.	C.J.M.	C.J.M.	3/11/98
A	PRELIMINARY	K.M.C.	C.J.M.	C.J.M.	4/11/96
ISSUE	DESCRIPTION	DRWN.	CHKD.	APPR.	DATE

**CleanHarbors**  
 ENVIRONMENTAL SERVICES  
 REMEDIAL INVESTIGATIONS  
 42 Longwater Drive  
 Norwell, Massachusetts 02061  
 Telephone (781) 792-5000

**TITLE** MURPHY'S WASTE OIL SERVICE, INC.  
 252 SALEM STREET  
 WOBURN, MASSACHUSETTS 01801

**SITE PLAN**

PROJECT NO. E0906569 DRAWING NO. 170-C-03

SCALE 1"=30'



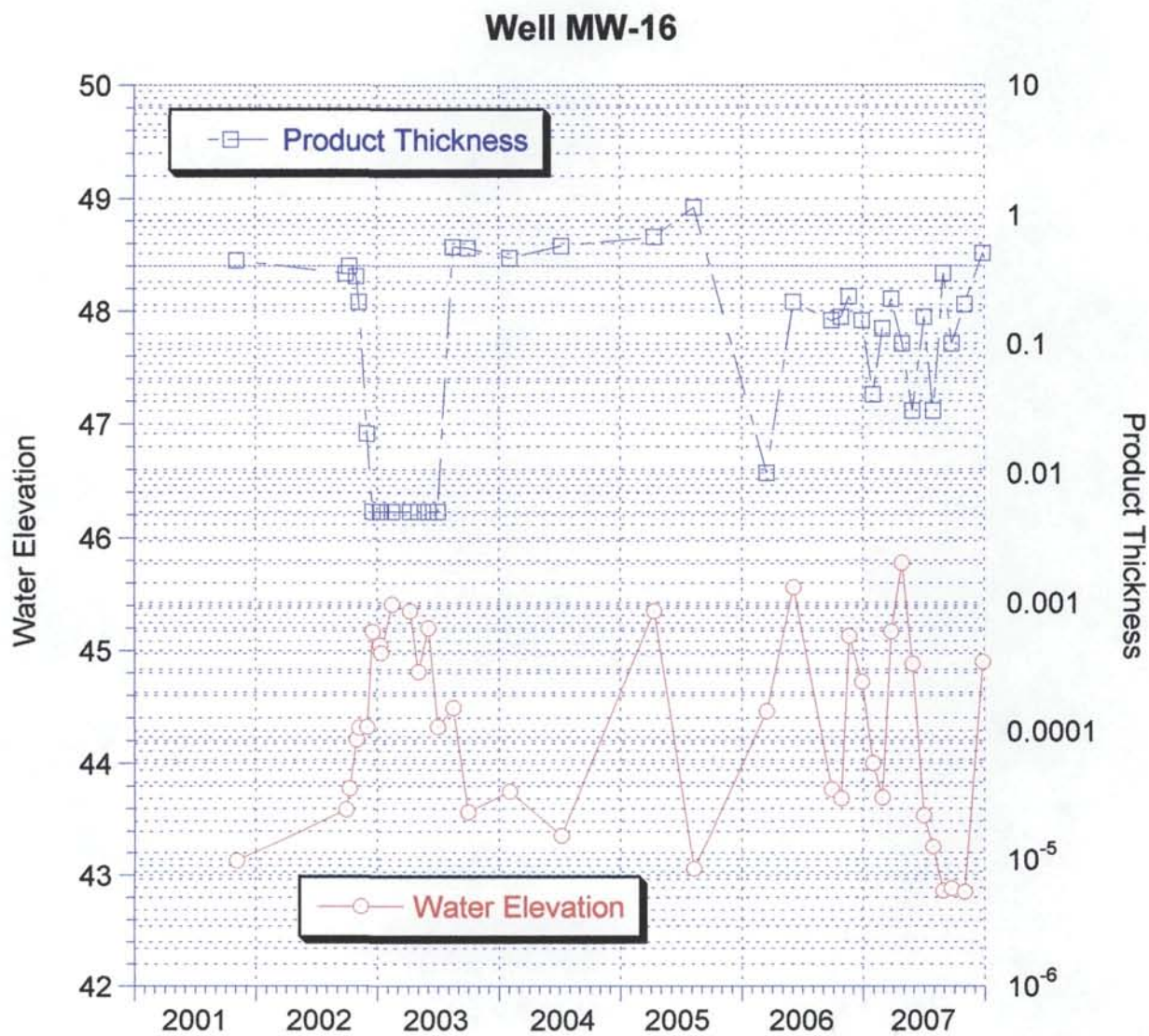


FIGURE 3

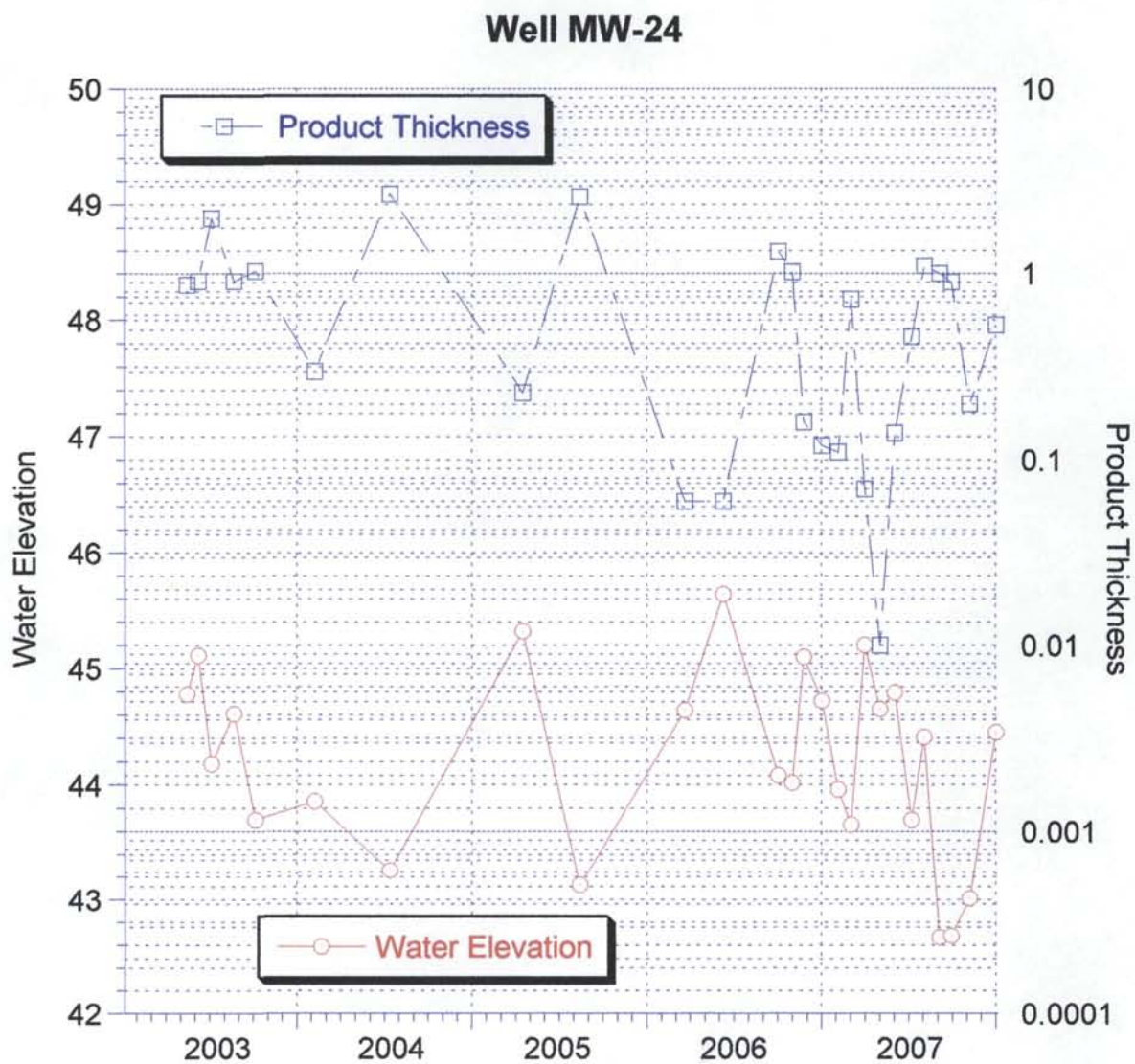


FIGURE 4







Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC105

**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL  
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 22144

**A. RELEASE OR THREAT OF RELEASE LOCATION:**

1. Release Name/Location Aid: **MURPHYS OIL WASTE**
2. Street Address: **252 SALEM ST**
3. City/Town: **WOBURN** 4. ZIP Code: **01801**
5. UTM Coordinates: a. UTM N: **4706254** b. UTM E: **324682**
- ☐ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.  
☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☐ d. Tier II
- ☐ 7. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. Specify Program (check one):  
☐ a. CERCLA ☐ b. HSWA Corrective Action ☐ c. Solid Waste Management  
☒ d. RCRA State Program (21C Facilities)

**B. THIS FORM IS BEING USED TO:** (check all that apply)

1. List Submittal Date of Initial IRA Written Plan (if previously submitted):   
(mm/dd/yyyy)
- ☐ 2. Submit an **Initial IRA Plan**.
- ☐ 3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.
- ☐ 4. Submit an **Imminent Hazard Evaluation**. (check one)  
☐ a. An Imminent Hazard exists in connection with this Release or Threat of Release.  
☐ b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.  
☐ c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.  
☐ d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.
- ☐ 5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.
- ☒ 6. Submit an **IRA Status Report**.
- ☐ 7. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)  
a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report  
b. Frequency of Submittal: (check all that apply)  
☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.  
☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.  
☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a IRA Status Report.  
c. Number of Remedial Systems and/or Monitoring Programs: \_\_\_\_\_

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC105

**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL  
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 22144

**B. THIS FORM IS BEING USED TO (cont.):** (check all that apply)

☐ 8. Submit an **IRA Completion Statement**.

☐ a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN). When linking RTNs, rescoring via the NRS is required if there is a reasonable likelihood that the addition of the new RTN(s) would change the classification of the site.

b. Provide Release Tracking Number of Tier Classified Site (Primary RTN):

-

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

☐ 9. Submit a **Revised IRA Completion Statement**.

(All sections of this transmittal form must be filled out unless otherwise noted above)

**C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:**

1. Identify Media Impacted and Receptors Affected: (check all that apply)

- ☐ a. Air ☐ b. Basement ☐ c. Critical Exposure Pathway ☒ d. Groundwater ☐ e. Residence  
☐ f. Paved Surface ☐ g. Private Well ☐ h. Public Water Supply ☐ i. School ☐ j. Sediments  
☐ k. Soil ☐ l. Storm Drain ☒ m. Surface Water ☐ n. Unknown ☒ o. Wetland ☐ p. Zone 2  
☐ q. Others Specify: **greater than 1/2-inch LNAPL on groundwater in monitoring well**

2. Identify Oils and Hazardous Materials Released: (check all that apply)

- ☒ a. Oils ☐ b. Chlorinated Solvents ☐ c. Heavy Metals  
☐ d. Others Specify:

**D. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply, for volumes list cumulative amounts)

- |   |   |
|---|---|
| <input type="checkbox"/> 1. Assessment and/or Monitoring Only                           | <input type="checkbox"/> 2. Temporary Covers or Caps                        |
| <input checked="" type="checkbox"/> 3. Deployment of Absorbent or Containment Materials | <input type="checkbox"/> 4. Temporary Water Supplies                        |
| <input type="checkbox"/> 5. Structure Venting System                                    | <input type="checkbox"/> 6. Temporary Evacuation or Relocation of Residents |
| <input checked="" type="checkbox"/> 7. Product or NAPL Recovery                         | <input type="checkbox"/> 8. Fencing and Sign Posting                        |
| <input type="checkbox"/> 9. Groundwater Treatment Systems                               | <input type="checkbox"/> 10. Soil Vapor Extraction                          |
| <input type="checkbox"/> 11. Bioremediation   | <input type="checkbox"/> 12. Air Sparging                                   |



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**D. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply, for volumes list cumulative amounts)

☐ 13. Excavation of Contaminated Soils

☐ a. Re-use, Recycling or Treatment

☐ i. On Site Estimated volume in cubic yards

☐ ii. Off Site Estimated volume in cubic yards

ii.a. Receiving Facility: Town: State:

ii.b. Receiving Facility: Town: State:

iii. Describe:

☐ b. Store

☐ i. On Site Estimated volume in cubic yards

☐ ii. Off Site Estimated volume in cubic yards

ii.a. Receiving Facility: Town: State:

ii.b. Receiving Facility: Town: State:

☐ c. Landfill

☐ i. Cover Estimated volume in cubic yards

Receiving Facility: Town: State:

☐ ii. Disposal Estimated volume in cubic yards

Receiving Facility: Town: State:

☐ 14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount:

b. Receiving Facility: Town: State:

c. Receiving Facility: Town: State:

☒ 15. Removal of Other Contaminated Media:

a. Specify Type and Volume: **15 gallons of Hazardous Waste Liquid**

b. Receiving Facility: **Clean Harbors of Braintree** Town: **Braintree** State: **MA**

c. Receiving Facility: Town: State:

☐ 16. Other Response Actions:

Describe:

☐ 17. Use of Innovative Technologies:

Describe:



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FORM**

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Release Tracking Number

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**E. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Action Status Report** and/or a **Remedial Monitoring Report** is(are) being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 9090

2. First Name: CHARLES J

3. Last Name: MCCREERY

4. Telephone: (781) 792-5823

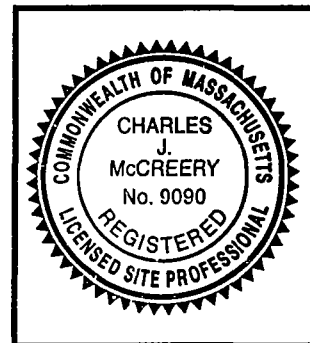
5. Ext.:

6. FAX:

7. Signature: 

8. Date: 2/22/08  
(mm/dd/yyyy)

9. LSP Stamp:





Massachusetts Department of Environmental Protection  
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FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

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**F. PERSON UNDERTAKING IRA:**

1. Check all that apply: ☒ a. change in contact name ☒ b. change of address ☐ c. change in the person undertaking response actions
2. Name of Organization: **MURPHYS WASTE OIL SERVICE INC**
3. Contact First Name: **WILLIAM** 4. Last Name: **CONNORS**
5. Street: **42 LONGWATER DR** 6. Title: **VP**
7. City/Town: **NORWELL** 8. State: **MA** 9. ZIP Code: **02061-0000**
10. Telephone: **(781) 792-5169** 11. Ext.:  12. FAX:

**G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:**

- ☒ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter  
☒ e. Other RP or PRP Specify: **PRP GENERIC OR NON-SPECIFIED**
- ☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- ☐ 4. Any Other Person Undertaking IRA Specify Relationship:

**H. REQUIRED ATTACHMENT AND SUBMITTALS:**

- ☐ 1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.  
☐ a. A Release Abatement Measure (RAM) Plan (BWSC106) ☐ b. Phase IV Remedy Implementation Plan (BWSC108)
- ☒ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- ☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
- ☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
- ☐ 5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to the DEP Regional Office.
- ☒ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



Massachusetts Department of Environmental Protection  
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**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL  
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 22144

**I. CERTIFICATION OF PERSON UNDERTAKING IRA:**

1. I, **WILLIAM CONNORS**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: William F. Connors  
Signature

3. Title: **VP**

4. For: **MURPHYS WASTE OIL SERVICE INC**

(Name of person or entity recorded in Section F)

5. Date: **2/22/08**  
(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street:

8. City/Town:

9. State:

10. ZIP Code:

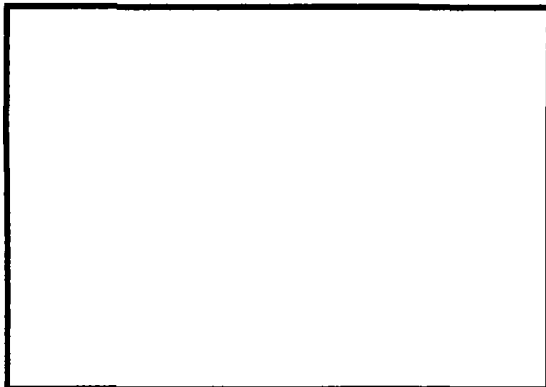
11. Telephone:

12. Ext.:

13. FAX:

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY:)





## APPENDIX B

## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 7/31/2007  
CHES Representative: John Talley

Location	Well Depth <i>(feet)</i>	Reference Elevation <i>(feet)</i>	Depth to Oil <i>(feet)</i>	Depth to Water <i>(feet)</i>	Product Thickness	Corrected Water Depth	Corrected Water Elev.
MW-7	12.0	50.89	NA	NA	NA	NA	NA
MW-16	12.0	50.24	6.62	6.65	0.03	6.62	43.62
MW-22	8.0	50.00	NA	6.45	0.00	6.45	43.55
MW-23	8.0	49.17	NA	5.62	0.00	5.62	43.55
MW-24	8.0	49.30	5.54	6.64	1.10	5.68	43.62
MW-25	8.0	49.84	6.01	6.19	0.18	6.03	43.81
MW-26	8.0	50.11	NA	5.91	0.00	5.91	44.20

### NOTES:

1. Well reference elevations determined at top of PVC well rim.



## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 8/31/2007  
CHES Representative: John Talley and Peter Klausmeyer

Location	Well Depth	Reference Elevation	Depth to Oil	Depth to Water	Product Thickness	Corrected Water Depth	Corrected Water Elev.
	(feet)	(feet)	(feet)	(feet)			
MW-7	12.0	50.89	7.75	9.30	1.55	7.95	42.94
MW-16	12.0	50.24	7.33	7.68	0.35	7.38	42.86
MW-22	8.0	50.00	NA	7.43	0.00	7.43	42.57
MW-23	8.0	49.17	NA	NA	NA	NA	NA
MW-24	8.0	49.30	6.50	7.50	1.00	6.63	42.67
MW-25	8.0	49.84	7.15	7.22	0.07	7.16	42.68
MW-26	8.0	50.11	NA	7.23	0.00	7.23	42.88

### NOTES:

1. Well reference elevations determined at top of PVC well rim.

## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 9/25/2007  
CHES Representative: John Talley and Peter Klausmeyer

Location	Well Depth <i>(feet)</i>	Reference Elevation <i>(feet)</i>	Depth to Oil <i>(feet)</i>	Depth to Water <i>(feet)</i>	Product Thickness	Corrected Water Depth	Corrected Water Elev.
MW-7	12.0	50.89	7.86	8.01	0.15	7.88	43.01
MW-16	12.0	50.24	7.35	7.45	0.10	7.36	42.88
MW-22	8.0	50.00	NA	7.34	0.00	7.34	42.66
MW-23	8.0	49.17	NA	NA	NA	NA	NA
MW-24	8.0	49.30	6.50	7.40	0.90	6.62	42.68
MW-25	8.0	49.84	7.01	7.04	0.03	7.01	42.83
MW-26	8.0	50.11	NA	6.98	0.00	6.98	43.13

### NOTES:

1. Well reference elevations determined at top of PVC well rim.

## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 11/2/2007  
CHES Representative: John Talley and Peter Klausmeyer

Location	Well Depth <i>(feet)</i>	Reference Elevation <i>(feet)</i>	Depth to Oil <i>(feet)</i>	Depth to Water <i>(feet)</i>	Product Thickness	Corrected Water Depth	Corrected Water Elev.
MW-7	12.0	50.89	7.31	8.81	1.50	7.51	43.39
MW-16	12.0	50.24	7.36	7.56	0.20	7.39	42.85
MW-22	8.0	50.00	NA	6.88	0.00	6.88	43.12
MW-23	8.0	49.17	NA	6.12	0.00	6.12	43.05
MW-24	8.0	49.30	6.24	6.46	0.20	6.29	43.01
MW-25	8.0	49.84	6.75	6.80	0.05	6.76	43.08
MW-26	8.0	50.11	NA	6.35	0.00	6.35	43.76

### NOTES:

1. Well reference elevations determined at top of PVC well rim.

## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 12/28/2007  
CHES Representative: John Talley and Peter Klausmeyer

Location	Well Depth <i>(feet)</i>	Reference Elevation <i>(feet)</i>	Depth to Oil <i>(feet)</i>	Depth to Water <i>(feet)</i>	Product Thickness	Corrected Water Depth	Corrected Water Elev.
MW-7	12.0	50.89	NA	NA	NA	NA	NA
MW-16	12.0	50.24	5.73	5.78	0.50	5.35	44.90
MW-22	8.0	50.00	NA	5.24	0.00	5.24	44.76
MW-23	8.0	49.17	NA	4.64	0.00	4.64	44.53
MW-24	8.0	49.30	4.78	5.31	0.53	4.85	44.45
MW-25	8.0	49.84	NA	5.13	0.00	5.13	44.71
MW-26	8.0	50.11	NA	5.25	0.00	5.25	44.86

### NOTES:

1. Well reference elevations determined at top of PVC well rim.

## WELL MONITORING FIELD DATA

Murphy's Waste Oil Service, Inc.  
252 Salem Street  
Woburn, Massachusetts

Sample Date: 1/29/08  
CHES Representative: John Talley

Location	Well Depth <i>(feet)</i>	Reference Elevation <i>(feet)</i>	Depth to Oil <i>(feet)</i>	Depth to Water <i>(feet)</i>	Product Thickness	Corrected Water Depth	Corrected Water Elev.
MW-7	12.0	50.89	NA	NA	NA	NA	NA
MW-16	12.0	50.24	5.95	6.25	0.30	5.99	44.25
MW-22	8.0	50.00	NA	5.43	0.00	5.43	44.57
MW-23	8.0	49.17	NA	4.81	0.00	4.81	44.36
MW-24	8.0	49.30	4.95	5.55	0.60	5.03	44.27
MW-25	8.0	49.84	NA	5.29	0.00	5.29	44.55
MW-26	8.0	50.11	NA	5.42	0.00	5.42	44.69

### NOTES:

1. Well reference elevations determined at top of PVC well rim.



QS-592

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

MW1656494

PTW 10921/2007

Form Approved, OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>M A D 0 6 6 5 8 0 0 5</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(800) 483-3719</b>	4. Manifest Tracking Number <b>001842919 FLE</b>						
5. Generator's Name and Mailing Address <b>Murphy's Waste Oil Service Inc</b> <b>252 Salem Street</b> <b>Wohum, MA 01001</b> Generator's Phone: <b>800 522-4645</b>											
6. Transporter 1 Company Name <b>Clean Harbors Env Services Inc</b> U.S. EPA ID Number <b>M A D 0 3 8 3 2 2 2 5 0</b>											
7. Transporter 2 Company Name U.S. EPA ID Number											
8. Designated Facility Name and Site Address <b>Clean Harbors Of Braintree Inc</b> <b>1 Hill Ave</b> <b>Braintree, MA, 02184</b> Facility's Phone: <b>(781) 360-7100</b> U.S. EPA ID Number <b>M A D 0 5 9 4 0 2 6 0 T</b>											
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) <b>HAZARDOUS WASTE, LIQUID, N.O.S., (LEAD, CHROMIUM), 9,</b> <b>NA3082, PG II</b>			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
				No.	Type			D004	D005	D006	
	X				3	DF	20	P	D007	D008	D010
	2										
	3										
4											
14. Special Handling Instructions and Additional Information <b>1 CH100350</b> <b>ERG#171</b>											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are truly and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Officer's Printed/Typed Name <b>Tom Covert</b>				Signature <i>Tom Covert</i>		Month Day Year <b>10 24 07</b>					
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name <b>John Elbe</b>				Signature <i>John Elbe</i>		Month Day Year <b>10 24 07</b>					
Transporter 2 Printed/Typed Name				Signature		Month Day Year					
18. Discrepancy											
18a. Discrepancy Indication Space: <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____											
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. <b>H141</b>		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a											
Printed/Typed Name <b>IRene Whipple</b>				Signature <i>IRene Whipple</i>		Month Day Year <b>10 24 07</b>					

MW1656494